

# Yash Shewalkar

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## About me

**Interests:** Full Stack Development, Data Science and always open to new opportunities and challenges.

A keen learner and a dedicated student with hands on experience in Full-Stack development, foundational knowledge in ML and Data Science. Built projects including Image Gallery, a Quiz App in Java and a Credit Card Approval Risk Predictor. Primarily program in C++, with a strong grasp on Java and Python. Proficient in RESTful APIs and modern web frameworks, with the ability to translate problem requirements into real working solutions. Eager to work and collaborate with tech experts and build amazing things.

## Education

<b>BTech</b>	Artificial Intelligence and Data Science, VIT-Pune	<b>CGPA – 8.63</b>	<b>By 2026</b>
<b>HSC</b>	Ambrosia Jr College, Nashik	<b>81%</b>	<b>2022</b>
<b>SSC</b>	Kilbil English Medium School, Satana	<b>95.40%</b>	<b>2020</b>

## Skills

<b>Programming:</b>	C/C++, Java, Python
<b>Web Development:</b>	Html, JavaScript, Tailwind, Node.js, Express.js, React, Next.js, Shadcn, Rest API
<b>Databases:</b>	MongoDB, MySQL
<b>Tools:</b>	VS Code, Google Colab, Postman, Git/Github, IntelliJ Idea

## Projects

### Image Gallery: (Node.js, Express.js, MongoDB) June 2024 - July 2024

- A full-stack image gallery application using NodeJS, Express, and MongoDB.
- Implemented user authentication with Passport.js and managed file uploads with Multer and UUID
- Designed a responsive UI with EJS and a Masonry layout, incorporating elements from Codepen for enhanced user experience.

### ANPR Based Entry System: (Python, OCR, OpenCV) Apr 2024 - May 2024

- Established a real-time number plate detection system using Python, STREAMLIT, OpenCV, and Firebase.
- Used EASYOCR for character recognition, cross-verifying data with Firebase for accuracy and reliability.
- Developed a QR-code scanning feature to streamline the registration of unverified plates, integrating with email systems for automated requests.
- The verification takes less than 2 seconds.

### Quiz App in Java: (Java, Swing UI, MySQL) Apr 2024 - May 2024

- Built a user interface using Java Swing along with OOP principles to ensure a maintainable and scalable codebase.
- Designed and integrated MySQL database with JDBC for effective and reliable database connectivity.
- Implemented CRUD operations and key features like student results tracking and an MCQ exam timer, enhancing overall application functionality.
- Added both Admin and User functionalities.

### Credit Card Approval Risk Predictor Model : Jan 2024 - Feb 2024

- Preprocessed the CIBIL dataset having 61 columns and applied feature selection and dimensionality reduction which reduced the features to 54.
- Conducted ANOVA tests, applied One-hot encoding and XGBoost to improve model's predictive performance
- Achieved 71% accuracy in categorizing approvals into four distinct groups

## Publications

- **Fake News Detector for Combatting Misinformation in Digital Age**: International Conference on Machine Vision and Augmented Intelligence 2023